

827-17

**CHICAGO
PNEUMATIC TOOL
COMPANY**

STONE TOOLS



CHICAGO — NEW YORK
— BRANCHES EVERYWHERE



Catalogue No. 37

STONE TOOLS

Chicago Pneumatic Tool Co.

Fisher Building - Chicago
50 Church Street - New York

BRANCH OFFICES ALL OVER THE WORLD

March 1, 1912

Chicago Pneumatic Tool Co.

General Office, Fisher Bldg.
CHICAGO

Eastern Office, No. 50 Church St.
NEW YORK

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Birmingham: Brown-Marx Bldg.	Philadelphia: 716 Arch St.
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Franklin, Pennsylvania	St. Louis: 1822-24 Locust St.
Los Angeles: 524 So. Los Angeles St.	St. Paul: Pioneer Press Bldg.
	San Francisco: 71 First Street

FOREIGN

CANADA:	{ Montreal, Canadian Pneumatic Tool Co.
	{ The Holden Co., Ltd., Montreal, Toronto, Winnipeg.
BRITISH COLUMBIA:	{ Vancouver, Holden Co., Ltd., 429 Pendar St. L. L. Johnson, Rep.
MEXICO:	{ Mexico City, The General Supply Company, Av. Isabel La Catolica No. 51.
NORTHERN MEXICO:	{ (Sonora and Chihuahua), H. A. Carpenter & Bro., El Paso, Texas.
GREAT BRITAIN:	{ London, The Consolidated Pneumatic Tool Com- pany, Ltd., 9 Bridge Street, Westminster, S. W.
ITALY:	
SPAIN:	
PORTUGAL:	
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BALKAN STATES:	{ Weinmeisterhoff, Weinmeisterstrasse No. 14.
NORWAY:	
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RUSSIA:	{ St. Petersburg, Pneumatic Tool Company, W. O. 18 Line. 27.
INDIA:	{ Bombay, Consolidated Pneumatic Tool Co., Ltd., Rampart Row, Fort.
JAPAN:	{ Yokohama, Kioto, Kobe, Tokio, F. W. Horne.
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NEW ZEALAND:	{ Wellington, Henry W. Peabody & Co.
SO. AMERICA:	{ Rio Janeiro, Brazil, Guinlee & Co. Buenos Aires, Argentina, Evans, Thornton & Co.
SOUTH AFRICA:	{ Johannesburg, The Consolidated Pneumatic Tool Co. Ltd., 25-27 London House, Loveday St. (P. O. Box 4921).



FACTORY AT DETROIT, MICH.

Where we make the Keller and Boyer Stone Tools
and Surfacers

We also have factories at Cleveland, Ohio, Chicago Heights, Ill., and Franklin, Pa., where a full line of Pneumatic and Electric Tools, Plug Drills, Rock Drills, Air Compressors, Gasoline Railway Motor Cars and Commercial cars are manufactured.

Catalogues covering any or all of these will be mailed on request to nearest branch office.

Catalogue No. 37

March 1, 1912

KELLER STONE TOOLS

The KELLER STONE TOOLS were designed and are made under conditions that have developed the greatest line of pneumatic tools ever offered to the industrial world. The inventive genius of Mr. Julius Keller, coupled with the superior manufacturing facilities of the CHICAGO PNEUMATIC TOOL COMPANY, has produced in the KELLER STONE TOOL, the simplest, yet most durable, efficient and economical stone tool made.

Mr. Keller's long experience with stone working machinery and his knowledge of the conditions under which stone tools are used, led him to seek simplicity of construction as the vital element in a successful tool. In the Keller Stone Tool, a minimum number of working parts is obtained—cylinder, piston and inlet piece being the only parts required. There are no latch pins, springs or plugs to get out of order and cause frequent breakdowns.

All parts are made from the best material possible to obtain, and are treated by the most up-to-date processes to retard wear and promote durability.

All parts are made absolutely interchangeable, and the accuracy with which parts so made can be fitted, insures the greatest possible economy in the consumption of air.

The combination of these superior elements results in a degree of efficiency found only in the KELLER STONE TOOLS.

They are made in four sizes, sufficient to cover all the requirements from the finest chasing and most delicate carving to the heaviest cutting, peining and bushing. For detailed specifications, see following page.

KELLER PNEUMATIC VALVELESS TOOLS



9-16 in. KELLER
Pneumatic Carving Tool
(Code — Qua)

Used for chasing and finishing fine and delicate carving on marble and onyx.



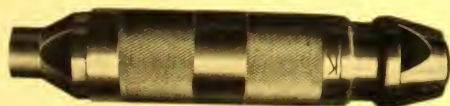
3-4 in. KELLER
Pneumatic Carving Tool
(Code — Quab)

Used for carving, lettering and chasing on granite, marble and other stone.



1 in. KELLER
Pneumatic Carving Tool
(Code — Quacha)

Used for architectural and monumental carving and general stone work. Where only one tool is installed, we recommend this size.



1 1-4 in. KELLER
Pneumatic Carving Tool
(Code — Quadrat)

Used for heavy work, mouldings, margins, peining and bushing.

SPECIFICATIONS

Size	Code	Diameter Piston	Length of Stroke	Blows per Minute, 100-lb. Pressure	Cubic Feet Free Air per Minute, 80-lb. Pressure	Size Hose Connection
$\frac{9}{16}$ "	Qua	$\frac{9}{16}$ "	$\frac{5}{8}$ "	10800	6	$\frac{1}{4}$ "
$\frac{3}{4}$ "	Quab	$\frac{3}{4}$ "	$\frac{1}{2}$ "	7300	7	$\frac{1}{4}$ "
1"	Quacha	1"	$\frac{1}{2}$ "	5800	8	$\frac{1}{4}$ "
1 $\frac{1}{4}$ "	Quadrat	1 $\frac{1}{4}$ "	$\frac{3}{4}$ "	4820	10	$\frac{1}{4}$ "

Size	Power Test	Length Overall	Tool Shank		Net Weight, Lbs.	Shipping Weight, Lbs.
			Diameter	Length		
$\frac{9}{16}$ "	00235	5 $\frac{3}{8}$ "	$\frac{1}{2}$ "	2"	1	2
$\frac{3}{4}$ "	00368	7"	$\frac{1}{2}$ "	2"	1 $\frac{1}{2}$	2 $\frac{1}{4}$
1"	03246	7 $\frac{7}{8}$ "	$\frac{1}{2}$ "	2"	3	4
1 $\frac{1}{4}$ "	04075	9 $\frac{1}{4}$ "	$\frac{5}{8}$ "	2 $\frac{1}{8}$ "	5 $\frac{1}{2}$	6 $\frac{1}{2}$

Note—The Power test of tool, referred to above is a decimal representing the standard of efficiency adopted by our engineering department. It is obtained by driving small sets of various dimensions into a piece of Norway iron. The decimal, which in a general way, determines the relative power of the tools, is derived from the formula $\frac{AD60}{T}$ where A=area of impression; D=depth of impression; T=time of test.

BOYER VALVED STONE TOOLS

For many classes of work, especially marble and soft stone, some operators prefer the BOYER VALVED STONE TOOLS to the Keller Valveless Stone Tools. They are patterned after the well known Boyer Hammer, which originally gave, and now gives the CHICAGO PNEUMATIC TOOL COMPANY its prestige in the field of labor saving machinery. The chief virtue of the BOYER VALVED STONE TOOL lies in the complete control over the amount of air that is permitted to enter the tool, and the consequent accurate regulation of blow. The operation of the piston is controlled by a valve, which insures the greatest economy of air consumption, and reduces vibration to a negligible quantity.

We find that on many classes of work, especially marble and soft stone, these tools give better results than the valveless type. They can be furnished with or without Pistol Grip Handles.

These machines are fitted with a Throttle Valve which enables the operator to have full control over the tool at all times, so that he can increase or decrease the power of the blow.

This style of tool has less vibration and consumes less air than the Valveless type.

All possibility of wear has been fully considered and we have reduced this to a minimum.

They are made in four sizes, covering the widest range of tools of their character, and can be furnished with either Pistol Grip or Straight Handle as preferred.

For detailed specifications see below.

SPECIFICATIONS

Code		Size	Diam. Piston	Length Stroke	Blows Per Minute	Cubic Feet Free Air Per Minute	Size Hose Conn.	Power Test	Length Overall	Weight	
Round	Hexagon									Net Lbs.	Ship- ping Lbs.
Abjection	Abjectioness	P	H	1 1/4"	2200	8	1/4"	.02004	10 "	6 1/2	10
Abjugate		O	H	3/4"	3200	7	1/4"	.00890	8 1/4"	4 1/2	8
Abjuration		U	3/8"	1/2"	3800	6	1/4"	.00185	7 3/4"	4 1/2	8
Abjuring	Ablesqueste	X	1/2"	1/2"	3600	5	1/4"	.00093	7 1/4"	4 1/2	8
Ablander		FP	H	1 1/4"	2200	8	1/4"	.01673	7 3/4"	5	8 1/2
Ablation		OO	H	3/4"	2700	7	1/4"	.00743	6 1/4"	3 1/2	7
Ablative		UU	3/8"	1/2"	3600	6	1/4"	.00112	5 1/2"	3 1/2	7
Ablaze		XX	1/2"	1/2"	3500	5	1/4"	.00057	5 1/2"	3 1/2	7

Note—Stone Hammers always furnished with round bushing, except P and FP with which either round or hexagon may be furnished. The P Hexagon Hammer is size and style best adapted for Buhr Stone work.

BOYER VALVED STONE TOOLS



BOYER VALVED STONE TOOLS FITTED WITH PISTON GRIP HANDLE

SIZE F

Used for heavy cutting, roughing,
peining and bushing.

SIZE O

Used for heavy carving, etc.

SIZE U

Used for cutting raised letters,
carving, etc.

SIZE X

Used for carving, tracing and
engraving.

BOYER VALVED STONE TOOLS FITTED WITH STRAIGHT HANDLE

SIZE FF

Used for heavy cutting, roughing,
peining and bushing.

SIZE OO

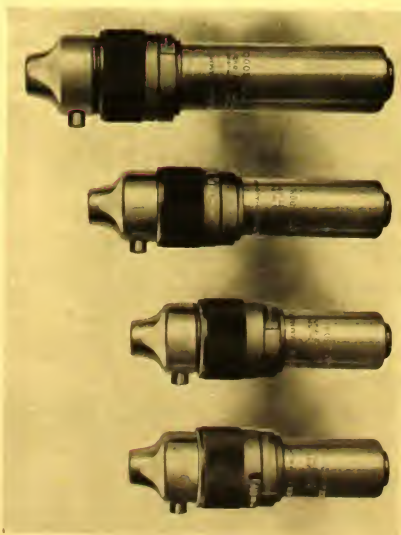
Used for heavy carving, etc.

SIZE UU

Used for cutting raised letters,
carving, etc.

SIZE XX

Used for carving, tracing and
engraving.



KELLER PNEUMATIC SURFACERS

Surfacing Machines are no longer an experiment, but are an indispensable equipment to the modern stone yard.

We manufacture the large Crane Surfer fitted with our Plain Stroke Surfacing Tool, known as our size No. 3, and the Junior Surfer, fitted with our Junior Plain Stroke Surfacing Tool, known as our size 2X. The relative merits of these machines are explained in the following pages.

The frames are built according to the best Crane and construction practice, and every part is of unusual strength and weight, which is essential in holding the Pneumatic Tool perfectly rigid.

In designing these machines, we have carefully considered the work of the operator, and therefore have perfected our machines so that they are as easily operated as the smaller tools.

SPECIFICATIONS

SURFACERS ONLY WITHOUT FRAME OR EQUIPMENT

Code	Size	Diameter Piston	Length Stroke	Blows per Minute, 100 Lbs.	Cubic Feet Free Air per minute	Size Hose Conn.	Length Overall Without Chisel	Net Weight (Lbs.)	Shipping Weight (Lbs.)
Qualustrie	2X (Junior)	1 3/4"	2"	1240	45	1 1/2"	15 1/4"	35	43
Quannadros	3 (Crane)	2 1/2"	3"	900	80	1 1/2"	19 1/2"	65	80

SURFACERS COMPLETE WITH FRAME AND EQUIPMENT

Code	Size	Net Weight (Lbs.)	Shipping Weight (Lbs.)
Qualabra	2X	433	577
Qualeda	3	1730	2500

SURFACER FRAMES ONLY

Code	Size	Length or Reach of Arm	Column		Weight, Lbs.	
			Diam.	Height	Net	Shipping
Qualitate	2X	54"	3"	84"	354	508
Qualoma	3	108"	5"	123"	1565	2265

EQUIPMENT

Code	Description
Quancitron	Pein (4-point) for No. 2X.
Quandary	Bush Chisel for No. 2X (1 1/4" opening.)
Quanetta	Extra Blades for same (1 1/4" opening.)
Quanform	Pein (4-point) for No. 3.
Quangrab	Bush Chisel for No. 3 (1 1/2" opening.)
Quaneath	Extra Blades for same (1 1/2" opening.)
Quande	Bush Chisel for No. 3 (2" opening.)
Quanjerk	Extra Blades for same (2" opening.)
Quankin	Sharpening Stake for Surfer Peins. (Give size of stake hole)

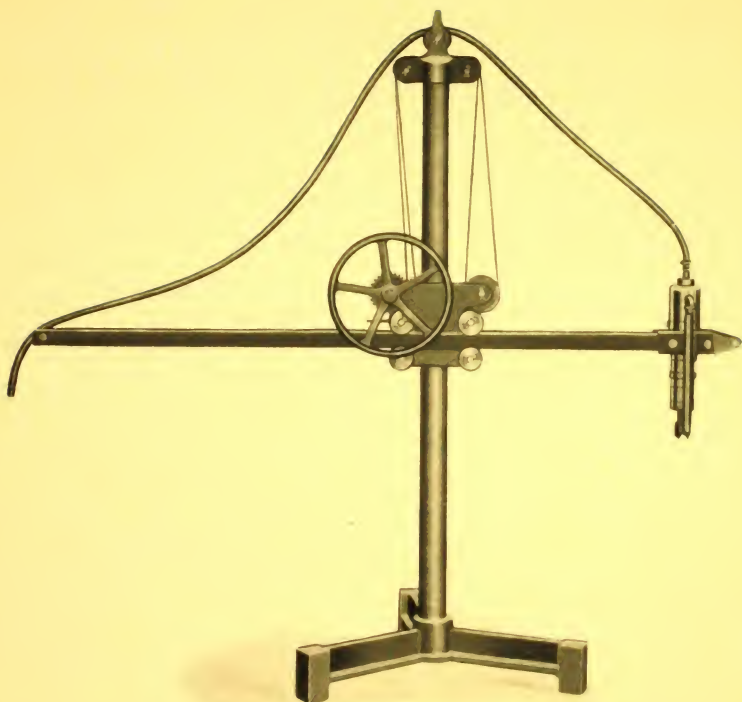
Regular Equipment for No. 2X consists of the following: 3 Bush Chisels with one chisel handle, 3 Pein Chisels, 1 Oil Can, 1 Exhaust Hose, 1 25-ft. pc. 3/4" Plain Hose with cock and nipple. Code word for complete equipment: **Quanbell**.

Regular Equipment for No. 3 consists of the following: 3 Bush Chisels with one chisel handle, 3 Pein Chisels, 1 Oil Can, 1 Exhaust Hose, 1 25-ft. pc. 3/4" Plain Hose with nipple, 1 13-ft. pc. 3/4" Plain Hose with cock and nipple. Code word for complete equipment: **Quannacre**.

Chisel Shanks for 2X: 1 1/4" dia. by 3 1/4" long; for No. 3: 1 1/2" dia. by 5" long.

Note—When ordering Bush Chisels, specify number of blades and bolt holes, and size of opening.

Note—Shipping weights are approximate.



KELLER 2X JUNIOR SURFACER

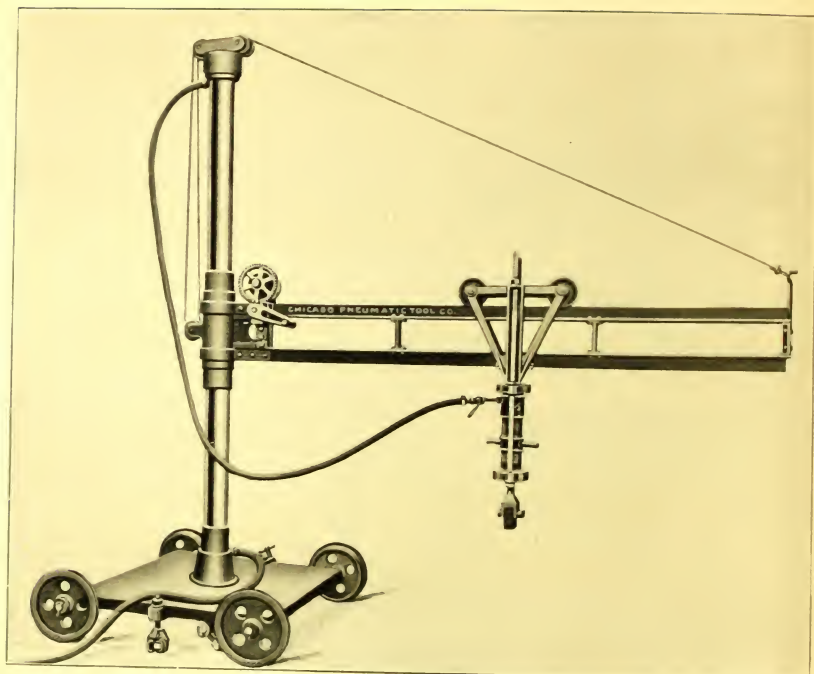
(Code — Qualabra)

This machine is designed to meet the requirements of the small stone yard or as an auxiliary to the large Crane Surfacer.

The upright Column is supported by an Iron Base, so that it is held rigid. The Arm which carries the Pneumatic Tool travels through the Carriage which rolls up and down Column, all bearings are of roller type and adjustable to wear in all directions. This machine is built on practical lines and will stand hard usage. The construction is very simple and all bearings are liberal.

The Pneumatic Tool is of the same type as our large Crane Surfacer and has about three-fifths of the power.

This machine is portable, two men being able to move it from place to place, saving the trouble of bringing the stone to the machine.



KELLER No. 3 CRANE SURFACER

(Code — Qualeda)

For the dressing of granite, this machine has met with unlimited success, and is an indispensable equipment to the modern stone cutting plant.

The machine is built for hard usage, such as these machines are subjected to. The construction is very simple, consisting of a Crane Tool Carriage, supported by a Standard and Base. The machine is portable and can easily be moved from place to place. We advise that the machine be set on a level track of railroad iron spiked to timbers, so that the Standard is in a vertical position holding the arm at right angles. This insures a perfectly level track for the Traveling Tool Carriage to run on, and gives the operator full control over the tool at all times, enabling him to cut a level surface free from bumps or hollows.

The Standard of Machine is fitted into an Air Receiver having a Flue running the full length, with our improved Heating Furnace at lower end. This takes the moisture out of the air and heats it before entering Pneumatic Tool. By this method the air is kept from freezing and at the same time is expanded, giving the greatest efficiency.

Under proper conditions, this machine will accomplish the work of from ten to twenty men working by hand.

STONE TOOL AND SURFACER ACCESSORIES



Granite Lettering Chisels

$\frac{3}{8}$ " Steel	$\frac{1}{8}$ " Shank	$\frac{5}{8}$ " Steel	$\frac{1}{2}$ " Shank	$\frac{3}{4}$ " Steel	$\frac{1}{2}$ " Shank
$\frac{1}{2}$ " Steel	$\frac{1}{2}$ " Shank	$\frac{7}{8}$ " Steel	$\frac{5}{8}$ " Shank	$\frac{3}{4}$ " Steel	$\frac{5}{8}$ " Shank



Granite Points

$\frac{1}{2}$ " Steel	$\frac{1}{2}$ " Shank	$\frac{5}{8}$ " Steel	$\frac{1}{2}$ " Shank
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Double Blade Chisel for Granite

$\frac{5}{8}$ " Steel	$\frac{1}{2}$ " Shank	$\frac{5}{8}$ " Steel	$\frac{5}{8}$ " Shank	$\frac{3}{4}$ " Steel	$\frac{5}{8}$ " Shank
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Pein Chisel for Granite

4 Teeth	$\frac{1}{2}$ " Steel	$\frac{1}{2}$ " Shank	9 Teeth	$\frac{3}{4}$ " Steel	$\frac{5}{8}$ " Shank
4 Teeth	$\frac{5}{8}$ " Steel	$\frac{1}{2}$ " Shank	16 Teeth	$\frac{3}{4}$ " Steel	$\frac{1}{2}$ " Shank
9 Teeth	$\frac{5}{8}$ " Steel	$\frac{1}{2}$ " Shank			



Ripping Tools — Single Row

4 Teeth	$\frac{1}{2}$ " Steel	$\frac{1}{2}$ " Shank	5 Teeth	$\frac{1}{2}$ " Steel	$\frac{1}{2}$ " Shank	6 Teeth	$\frac{1}{2}$ " Steel	$\frac{1}{2}$ " Shank
4 Teeth	$\frac{5}{8}$ " Steel	$\frac{1}{2}$ " Shank	5 Teeth	$\frac{5}{8}$ " Steel	$\frac{1}{2}$ " Shank	6 Teeth	$\frac{5}{8}$ " Steel	$\frac{1}{2}$ " Shank
4 Teeth	$\frac{3}{4}$ " Steel	$\frac{5}{8}$ " Shank	5 Teeth	$\frac{3}{4}$ " Steel	$\frac{5}{8}$ " Shank	6 Teeth	$\frac{3}{4}$ " Steel	$\frac{5}{8}$ " Shank



Ripping Tools — Double Row

6 Teeth	$\frac{5}{8}$ " Steel	$\frac{1}{2}$ " Shank	8 Teeth	$\frac{5}{8}$ " Steel	$\frac{1}{2}$ " Shank	10 Teeth	$\frac{5}{8}$ " Steel	$\frac{1}{2}$ " Shank
6 Teeth	$\frac{3}{4}$ " Steel	$\frac{1}{2}$ " Shank	8 Teeth	$\frac{3}{4}$ " Steel	$\frac{1}{2}$ " Shank	10 Teeth	$\frac{3}{4}$ " Steel	$\frac{1}{2}$ " Shank
6 Teeth	$\frac{3}{4}$ " Steel	$\frac{5}{8}$ " Shank	8 Teeth	$\frac{3}{4}$ " Steel	$\frac{5}{8}$ " Shank	10 Teeth	$\frac{3}{4}$ " Steel	$\frac{5}{8}$ " Shank



Granite Tool Bush Chisel

No. 1, $\frac{5}{8}$ " opening (any number of cuts)	$\frac{1}{2}$ " shank	No. 3, $\frac{3}{4}$ " opening (any number of cuts)	$\frac{1}{2}$ " shank
No. 1, $\frac{3}{4}$ " opening (any number of cuts)	$\frac{5}{8}$ " shank	No. 3, $\frac{3}{4}$ " opening (any number of cuts)	$\frac{5}{8}$ " shank
No. 2, $\frac{1}{2}$ " opening (any number of cuts)	$\frac{1}{2}$ " shank	No. 4, $\frac{1}{4}$ " opening (any number of cuts)	$\frac{1}{2}$ " shank
No. 2, $\frac{1}{2}$ " opening (any number of cuts)	$\frac{3}{8}$ " shank	No. 4, $\frac{1}{4}$ " opening (any number of cuts)	$\frac{5}{8}$ " shank

STONE TOOL AND SURFACER ACCESSORIES

CONTINUED



Marble Lettering Chisel

$\frac{1}{2}$ " Steel	$\frac{3}{8}$ " Blade	$\frac{1}{2}$ " Shank	$\frac{1}{2}$ " Steel	$\frac{7}{8}$ " Blade	$\frac{1}{2}$ " Shank	$\frac{3}{8}$ " Steel	$1\frac{1}{4}$ " Blade	$\frac{1}{2}$ " Shank
$\frac{1}{2}$ " Steel	$\frac{5}{8}$ " Blade	$\frac{1}{2}$ " Shank	$\frac{1}{2}$ " Steel	1" Blade	$\frac{1}{2}$ " Shank	$\frac{5}{8}$ " Steel	$1\frac{1}{2}$ " Blade	$\frac{1}{2}$ " Shank
$\frac{1}{2}$ " Steel	$\frac{3}{4}$ " Blade	$\frac{1}{2}$ " Shank	$\frac{1}{2}$ " Steel	$1\frac{1}{8}$ " Blade	$\frac{1}{2}$ " Shank			



Marble Tooth Chisel

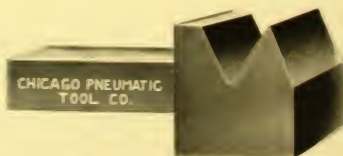
$\frac{1}{2}$ " Steel	$\frac{3}{8}$ " Blade	$\frac{1}{2}$ " Shank	$\frac{1}{2}$ " Steel	$\frac{7}{8}$ " Blade	$\frac{1}{2}$ " Shank	$\frac{5}{8}$ " Steel	$1\frac{1}{4}$ " Blade	$\frac{1}{2}$ " Shank
$\frac{1}{2}$ " Steel	$\frac{5}{8}$ " Blade	$\frac{1}{2}$ " Shank	$\frac{1}{2}$ " Steel	1" Blade	$\frac{1}{2}$ " Shank	$\frac{5}{8}$ " Steel	$1\frac{1}{2}$ " Blade	$\frac{1}{2}$ " Shank
$\frac{1}{2}$ " Steel	$\frac{3}{4}$ " Blade	$\frac{1}{2}$ " Shank	$\frac{1}{2}$ " Steel	$1\frac{1}{8}$ " Blade	$\frac{1}{2}$ " Shank			



Surfacer Four-Point



Surfacer Bush Chisel

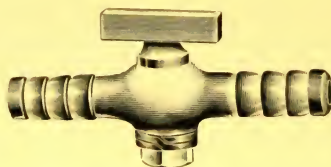


Sharpening Stake for Surfacers Tools

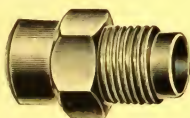
In ordering give size of Stake Pole



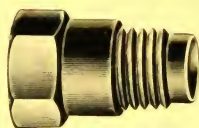
Hose Nipple



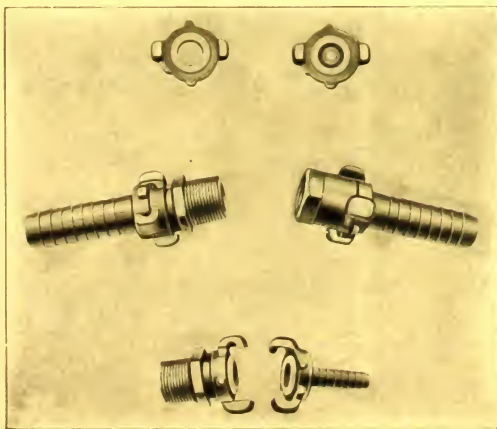
Stop-Cock



Surfacer Coupling Nipple



Plug Driller Coupling Nipple



CHICAGO HOSE COUPLER

The Chicago Hose Coupler is the only universal coupler yet devised. It differs from all other hose couplers in so far as neither half is male nor female but a combination of both; therefore a quarter inch hose can be coupled to an inch pipe, three-quarter inch hose to an inch pipe, one-quarter inch hose to one inch hose — or in other words, any size will couple to any other size, whether it be larger hose or pipe, as will be observed by reference to illustrations herewith. They are manufactured for male thread pipe size, female thread pipe size, as well as for hose from $\frac{1}{4}$ inch to 1 inch.



$\frac{7}{16}$ inch, $\frac{1}{2}$ inch, $\frac{3}{4}$ inch or 1 inch Special High Pressure Pneumatic Hose,
in 10 ft., 12 $\frac{1}{2}$ ft., 25 ft. or 50 ft. lengths



$\frac{3}{4}$ inch to 2 $\frac{1}{2}$ inch Flat Wire Wound High Pressure Hose
in 25 ft. or 50 ft. lengths



The Sure Grip Hose Band. We can furnish them for any size hose.



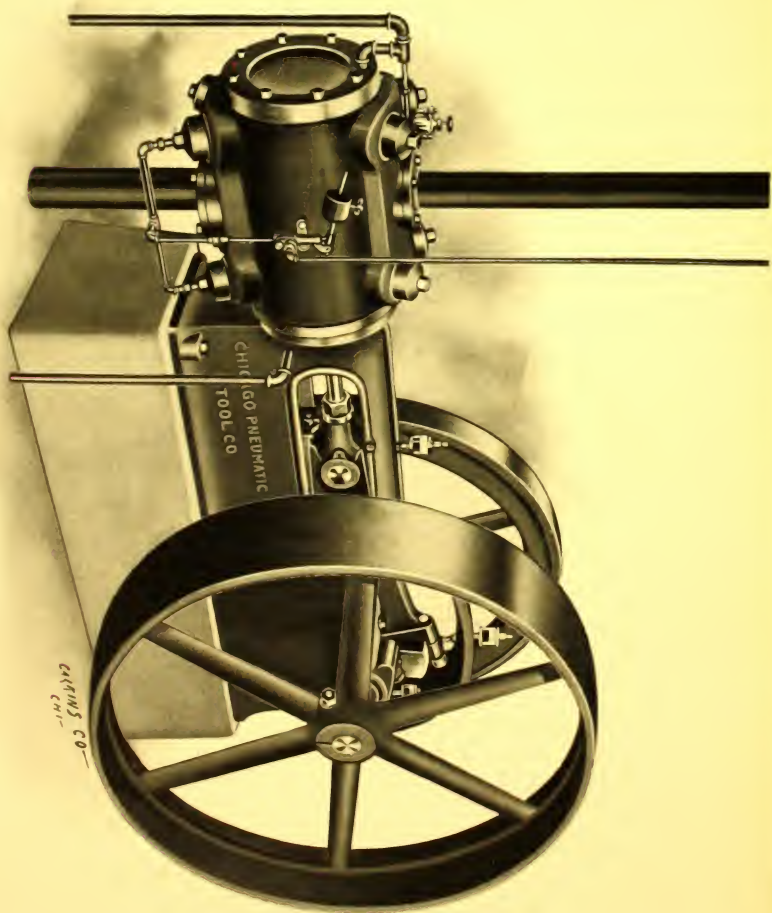
The Chicago Hose Clamp Tool will be found useful where an exceptionally tight joint is required.

OIL

Airoilene is manufactured especially for us and recommended for use with all Pneumatic Tools of our manufacture. After an exhaustive test of the many kinds of lubricants, we found it necessary to use an oil that would not gum, heat, decompose, oxidize or clog. As Pneumatic Tools are fitted very closely, a heavy oil cannot be used, but it must have richness, absolute purity and adhesion. Airoilene embodies all these qualities.

We will guarantee that tools oiled regularly with this oil will give fifty per cent less trouble than if lubricated with oils not expressly adapted for this purpose. Tools should be oiled every hour when in constant use.

This oil is sold in one, two, five and ten gallon cans and in one-half and one barrel lots. We will be glad to quote you on any quantity you may need.



SINGLE BELT-DRIVEN "CHICAGO PNEUMATIC" AIR COMPRESSOR CLASS G-S. B.

Suitable for 100 pounds air pressure. Having cylinder and heads water jacketed and provided with automatic unloading device.

REPAIR PARTS

K•ST-1



K•ST-2



K•ST-3



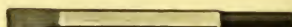
K•ST-5



K•ST-4



K•ST-6



REPAIR PARTS FOR KELLER 9-16 IN. VALVELESS STONE TOOL (Prices on Application)

CODE	Symbol No.	No. Pieces	Description
Karaato	$\frac{9}{16}$ " KST-1	1	Cylinder
Karaffe	$\frac{9}{16}$ " KST-2	1	Piston
Karagan	$\frac{9}{16}$ " KST-3	1	Chisel Bushing
Karamle	$\frac{9}{16}$ " KST-4	1	Inlet Piece
Karasin	$\frac{9}{16}$ " KST-5	1	Outside Cylinder

REPAIR PARTS FOR KELLER 3-4 in. VALVELESS STONE TOOL

Karatas	$\frac{3}{4}$ " KST-1	1	Cylinder
Karatch	$\frac{3}{4}$ " KST-2	1	Piston
Karawan	$\frac{3}{4}$ " KST-3	1	Chisel Bushing
Karbeel	$\frac{3}{4}$ " KST-4	1	Inlet Piece
Kardoes	$\frac{3}{4}$ " KST-5	1	Outside Cylinder

REPAIR PARTS FOR KELLER 1 IN. VALVELESS STONE TOOL

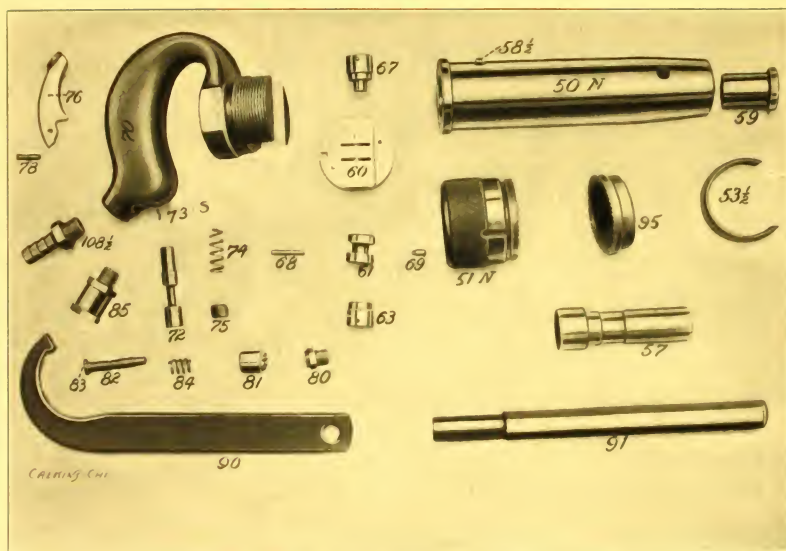
Karhol	1" KST-1	1	Cylinder
Kargsam	1" KST-2	1	Piston
Kariger	1" KST-3	1	Chisel Bushing
Karkant	1" KST-4	1	Inlet Piece
Karmout	1" KST-5	1	Outside Cylinder

REPAIR PARTS FOR KELLER 1-1 1/4 IN. VALVELESS STONE TOOL

Karnhond	1 1/4" KST-1	1	Cylinder
Karnbuis	1 1/4" KST-2	1	Piston
Karnpola	1 1/4" KST-3	1	Chisel Bushing
Karntril	1 1/4" KST-4	1	Inlet Piece
Karpens	1 1/4" KST-5	1	Outside Cylinder

In ordering repair parts, give size and serial number of tool, also symbol number of part.

REPAIR PARTS—Continued



REPAIR PARTS FOR "F" HAMMER (Prices on Application)

CODE	Symbol No.	No. Pieces	DESCRIPTION
Agony	F-50 Comp.	1	Cylinder, Round or Hexagon.
Agracillo	F-51	1	Cylinder Coupling Sleeve
Agramador	F-52 Comp.	1	Lock, complete (52, 53, 54, 55)
Agramunt	F-52 Old Style	1	Cylinder Coupling Sleeve Lock
Agrandir	F-53 Old Style	1	Cylinder Coupling Sleeve Lock Spring
Agrarian	F-53 1/2	1	Lock Sleeve Spring Clip
Agrarianly	F-54 Old Style	1	Cylinder Coupling Sleeve Lock Tip
Agravante	F-55 Old Style	1	Cylinder Coupling Sleeve Lock Screw
Agreeably	F-57	1	Piston
Agreft	F-58	1	Lock Sleeve
Agreftal	F-58 1/2	1	Lock Sleeve Key
Agrestic	F-59 Round	1	Chisel Sleeve (Round)
Agricultor	F-59 Hex.	1	Chisel Sleeve (Hexagon)
Agrifolio	F-60 Comp.	1	Valve complete (F-60N, 61N, 63 1/2, 68, 69)
Agripaume	F-60N only	1	Valve Case
Agromomy	F-61N	1	Valve
Agrotais	F-63	1	Check Valve Case
Aguaderas	F-63 1/2	1	Valve Case Chamber Head
Ague	F-68	2	Pins for F-63
Aguish	F-69	2	Dowel Pins for F-60
Aguishness	F-70 Comp.	1	Handle, complete (70 to 78, inclusive)
Ahurir	F-70-73	1	Handle Forging with Tube
Ahmundan	F-72	1	Throttle Valve
Aidance	F-73	1	Throttle Valve Tube (not furnished on supply orders)
Aidless	F-74	1	Throttle Valve Spring
Aigle	F-75	1	Throttle Valve Plug
Aignan	F-76 Comp.	1	Throttle Lever, complete (76-7-8)
Aiguilet	F-76-7	1	Throttle Lever
Aileron	F-78	1	Throttle Lever Pin
Ailing	F-80 Comp.	1	Regulator, complete
Ailment	F-80	1	Regulator Nut
Ailmoney	F-82-3	1	Regulator Screw and Head
Ailmore	3-85 Comp.	1	All other parts of Regulator same as for No. 3 Hammer
Aim	F-90	1	Strainer (same as for No. 3 Hammer)
Aimlessly	F-91 Round	1	Spanner Wrench
Airball	F-91 Hex.	1	Chisel Blank (Round), 1/2 inch Quar. Oct.
Airbudding	F-91 Rd. Special	1	Chisel Blank (Hexagon) 1/2 inch Quar. Oct.
Airbuff	F-91 Hex. Special	1	Chisel (Round Shank) finished for buhr stone
Airbuff	F-91 Hex. Special	1	Chisel (Hexagon Shank) finished for buhr stone
Airbent	3-108 1/2	1	Hose Nipple (1/4" Pipe Thread—1/4" Hose)

In ordering repair parts, give size and serial number of tool, also symbol number of part.

REPAIR PARTS — Continued

REPAIR PARTS FOR "O" BOYER HAMMER

CODE	Symbol No.	No. Pieces	DESCRIPTION
Airian	O-50 Comp.	1	Cylinder, complete.
Airier	O-51	1	Cylinder Coupling Sleeve
Airiate	O-53 1/2	1	Lock Sleeve Spring Clip
Airiness	O-57	1	Piston
Airlane	O-58	1	Lock Sleeve
Airless	O-58 1/2	1	Lock Sleeve Key
Airling	O-59 Round	1	Chisel Sleeve (Round)
Aisle	O-60 Comp.	1	Valve, complete (60N, 61N, 63 1/2, 68, 69)
Ajutage	O-60N	1	Valve Case
Akenium	O-61N	1	Valve
Akimbo	O-63	1	Check Valve Case
Alabaster	O-63 1/2	1	Valve Case Chamber Head
Alabuga	O-68N	1	Pin for O-63 1/2
Alacrity	O-69	2	Dowel Pins for O-60N
Aladag	O-70 Comp.	1	Handle, complete (O-70 to 78, inclusive)
Alajate	O-70-73	1	Handle Forging with Throttle Tube

All other parts same as "F" Hammer, page 17.

REPAIR PARTS FOR "U" HAMMER

Alarm	U-50 Comp.	1	Cylinder, complete.
Alarment	U-57	1	Piston

All other parts same as "O" Hammer, page 18.

REPAIR PARTS FOR "X" HAMMER

Alarming	X-50 Comp.	1	Cylinder, complete.
Alarmist	X-57	1	Piston

All other parts same as "O" Hammer, page 18.

REPAIR PARTS FOR "FF" STRAIGHT HANDLE STONE HAMMER

Alaterne	FF-50	1	Cylinder Comp.
Alava	FF-51	1	Cylinder Coupling Sleeve
Albacete	FF-53 1/2	1	Lock Sleeve Spring Clip
Albatross	FF-57	1	Piston
Alberge	FF-58	1	Lock Sleeve
Albeuve	F-59 Round	1	Chisel Sleeve (Round)
Albicore	F-59 Hex	1	Chisel Sleeve (Hexagon)
Albino	F-60 Comp.	1	Valve, complete (60N, 61N, 63 1/2, 68N, 69)
Albolate	F-60N only	1	Valve Case
Albona	F-61N	1	Valve
Alborace	F-63 1/2	1	Valve Case Chamber Head
Albugine	F-68N	1	Pin for 63 1/2
Album	F-69	2	Dowel Pins for 60
Albumine	FF-70 Comp.	1	Handle, complete (FF-70, OO-71, F-71 1/2, FF-72, FF-74, OO-78)
Alcade	FF-70	1	Handle
Alcahest	F-71 1/2	1	Plug for part 70
Alcaique	FF-72	1	Throttle Valve
Alcala	FF-74	1	Throttle Valve Spring
Alchemist	F-90	1	Spanner Wrench
Alchery	F-91 Round	1	Chisel Blank (Round)
Alcohol	F-91 Hex	1	Chisel Blank (Hex.)
Alcove	FF-98	1	Cushion Bushing

In ordering repair parts, give size and serial number of tool, also symbol number of part.

REPAIR PARTS—Continued

REPAIR PARTS FOR "OO" STRAIGHT HANDLE STONE HAMMER

CODE	Symbol No.	No. Pieces	DESCRIPTION
Alcubilla	OO-50	1	Cylinder Comp.
Alcudia	OO-51	1	Cylinder Coupling Sleeve
Aldego	OO-53 1/2	1	Lock Sleeve Spring Clip
Alder	OO-57	1	Piston
Alderman	OO-58	1	Lock Sleeve
Aldern	OO-58 1/2	1	Lock Sleeve Key
Aleberry	O-59	1	Chisel Sleeve (Round)
Alecost	O-60N Comp	1	Valve, complete (60N, 61N, 63 1/2, 68N, 69)
Alegar	O-60N only	1	Valve Case
Aleconner	O-61N	1	Valve
Alegрана	O-63 1/2	1	Valve Case Chamber Head
Alehouse	O-68N	1	Pin for 63 1/2
Alembic	O-69	2	Dowel Pins for O-60N
Alembroth	OO-70 Comp.	1	Handle, complete (OO-70, 71, 72, 72 1/2, 74, 78)
Alenois	OO-70	1	Handle
Alert	OO-71	1	Handle Dowel Pin
Alertness	OO-72	1	Throttle Valve
Alesage	OO-72 1/2	1	Throttle Opening Sleeve
Alfange	FF-74	1	Throttle Valve Spring
Alfet	OO-78	1	Valve Stop Pin
Algalie	O-90	1	Spanner Wrench
Alganon	F-91 Round	1	Chisel Blank (Round)
Algarade	OO-98	1	Cushion Bushing
Algates	3-108 1/2	1	Hose Nipple (1/4" Pipe Thread—1/4" Hose)

REPAIR PARTS FOR "UU" STRAIGHT HANDLE STONE HAMMER

Algarian	UU-50	1	Cylinder Comp.
Algebra	UU-57	1	Piston
Algebraist	UU-98	1	Cushion Bushing

All other parts same as "OO" Hammer

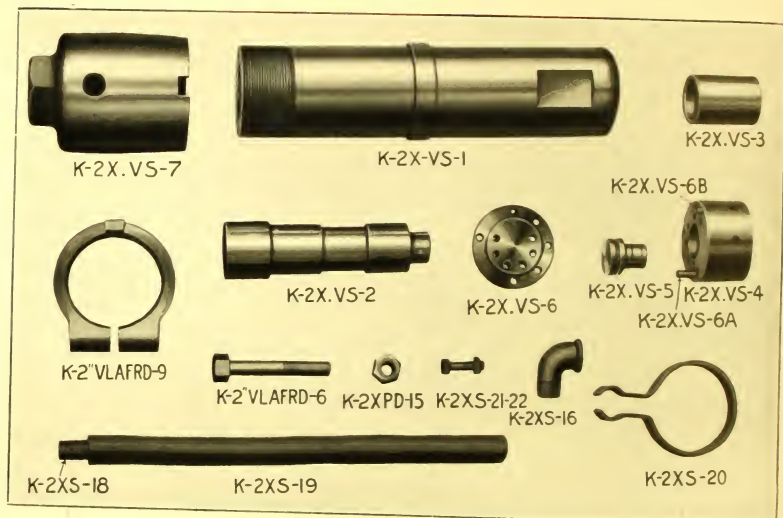
REPAIR PARTS FOR "XX" STRAIGHT HANDLE STONE HAMMER

Algid	XX-50	1	Cylinder Comp.
Algidity	XX-57	1	Piston
Algidorus	XX-98	1	Cushion Bushing

All other parts same as "OO" Hammer

In ordering repair parts, give size and serial number of tool, also symbol number of part.

REPAIR PARTS — Continued



REPAIR PARTS FOR "KELLER" 2X VALVE SURFACER

(Prices on Application.)

CODE	Symbol No.	No. Pieces	DESCRIPTION
Kathaak	K2XVS-1	1	Cylinder
Kathete	K2XVS-2	1	Piston
Katoenz	K2XVS-3	1	Chisel Bushing
Katooge	K2XVS-4	1	Valve Box
Katchip	K2XVS-5	1	Valve
Kattath	K2XVS-6	1	Valve Box Bottom
Katekop	K2XVS-6A	1	Valve Box Steady Pin, Long
Katerig	K2XVS-6B	1	Valve Box Steady Pin, Short
Katerel	K2XVS-4 Comp	1	Valve Box Complete (K2XVS-4-5-6-6A-6B)
Kattpur	K2XVS-7	1	Cylinder Head
Katvich	K1 1/4" VLRD-12	1	Air Strainer
Katzend	K2" VLAFRD-9	1	Cylinder Head Clamp
Kauernb	K2" VLAFRD-6	1	Cylinder Head Clamp Bolt
Kaufbar	K 2XPD-15	1	Nut
Kaufgel	K2XS-16	1	Service Elbow
Kaufher	K2XS-18	1	Exhaust Hose Nipple
Kauntig	K2XS-19	1	Exhaust Hose
Kaufzug	K2XS-20	1	Exhaust Hose Clamp
Kauzahn	K2XS-21	1	Exhaust Hose Clamp Bolt
Kayacks	K2XS-22	1	Exhaust Hose Clamp Bolt Nut

In ordering repair parts, give size and serial number of tool, also symbol number of part.

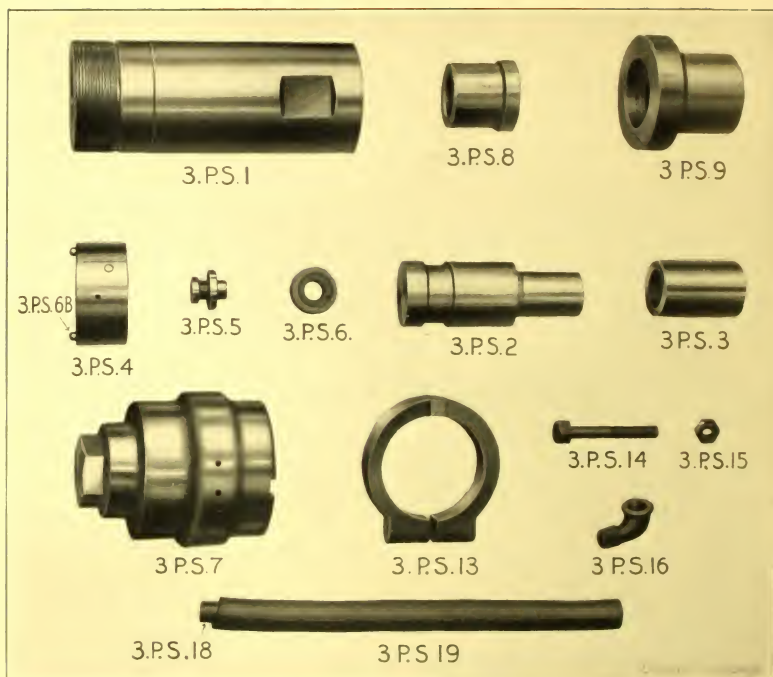
REPAIR PARTS—Continued

REPAIR PARTS FOR KELLER 2-X SURFACER FRAME

CODE	Symbol No.	No. Pieces	DESCRIPTION
Kraghops	K-2-XASF-1	1	Base
Kragjast	K-2-XASF-4	1	Hand Wheel
Kragmanx	K-2-XSF- 5	1	Column
Kragsten	K-2-XSF- 6	1	Cap Piece
Krakbeen	K-2-XSF- 7	4	Small Rope Wheel
Krakboom	K-2-XSF- 8	3	Small Rope Wheel Shaft
Kralrand	K-2-XSF- 9	6	Split Pin
Krambend	K-2-XSF-10	1	Top Race
Kramgood	K-2-XSF-11	1	Bottom Race
Kramkiid	K-2-XASF-12	1	Hose Pulley
Kramster	K-2-XASF-13	1	Side Frame
Krambalk	K-2-XSF-14	2	Side Bars
Krambust	K-2-XASF-15	10	Split Pin
Krangeld	K-2-XASF-16	2	Jamb Nut, $\frac{5}{8}$ -inch
Kranjest	K-2-XASF-17	1	Hand Wheel Key
Kranzag	K-2-XSF-18	1	Drum
Kranzome	K-2-XSF-19X	1	Drum Shaft
Kranzist	K-2-XSF-20	1	Drum Shaft Key
Krabblet	K-2-XSF-22	1	Bolt, $\frac{5}{8}$ x5 $\frac{3}{4}$ inches
Krabselz	K-2-KASF-23	1	Spacer
Krabapin	K-2-XASF-24	1	Ratchet Pawl
Krabvorm	K-2-XASF-25	8	Guide Rolls
Krachant	K-2-XASF-26	4	Guide Rolls Shaft
Krachben	K-2-XSF-27	1	Large Rope Wheel
Krachkos	K-2-XASF-28	1	Large Rope Wheel Shaft
Krachdil	K-2-XASF-29	1	Clamp Handle
Krachfiz	K-2-XASF-30	1	Handle Bar
Krachgil	K-2-XASF-31	1	Rivet Bearing
Krachhoz	K-2-XASF-33	2	Bolt, $\frac{5}{8}$ x 6 $\frac{3}{8}$ inches
Krachjut	K-2-XASF-34	1	Set Screw
Krachkis	K-2-XSF-35	3	Nut, $\frac{5}{8}$ -inch
Krachmut	K-2-XSF-36	1	Distance Piece
Krachput	K-2-XSF-37		Wire Rope, 22 feet
Krachrod	2-ED-37	29	Balls
Krachsit	K-2-XSF-38	1	Column Set Screw

In ordering repair parts, give size and serial number of tool, also symbol number of part.

REPAIR PARTS — Continued



REPAIR PARTS FOR NO. 3 PLAIN STROKE SURFACER

(Prices on Application.)

CODE	Symbol No.	No. Pieces	DESCRIPTION
Kedlack	3-P S- 1	1	Cylinder
Kedmark	3-P S- 2	1	Piston
Keelgat	3-P S- 3	1	Chisel Bushing
Keelhok	3-P S- 4	1	Valve Box
Keelrak	3-P S- 5	1	Valve
Keelson	3-P S- 6	1	Valve Box Top
Keeltuk	3-P S- 6A	2	Steady Pin
Keepass	3-P S- 4 Comp	1	Valve Box Complete (3-PS 4-5-6-6A)
Keepsak	3-P S- 7	1	Cylinder Head
Keep ten	3-P S- 8	1	Cylinder Bushing
Keerbad	3-P S- 9	1	Nose Piece
Keerdam	3-P S-10	1	Leather Washer
Keerduk	3-P S-12	1	Air Strainer
Keering	3-P S-13	1	Cylinder Head Clamp
Keerlie	3-P S-14	1	Clamp Bolt
Keermut	3-P S-15	1	Clamp Bolt Nut
Keestut	3-P S-16	1	1/2x1/2" Service Ell
Keetbus	3-P S-18	1	1/2" Exhaust Hose Nipple
Keetrex	3-P S-19	1	Exhaust Hose

In ordering repair parts, give size and serial number of tool, also symbol number of part.

REPAIR PARTS — Continued

REPAIR PARTS FOR NO. 3 CRANE SURFACER FRAME

(Prices on Application.)

CODE	Symbol No.	No. Pieces	DESCRIPTION
Kriegbarn	SD-20	1	Platform.....
Kriegbest	SD-21	4	Wheels (flange).....
Kriegbunt	SD-22	2	Axles.....
Krieghaft	SD-24	4	Rail Clamp.....
Kriegseld	SD-25	2	Rail Clamp Bolt.....
Kriegfust	SD-31	2	Fire Pot Slides.....
Krieggort	SD-32	4	Slide Bolts and Nuts.....
Krieghorn	SD-33	1	Fire Pot.....
Krieglast	SD-34	1	Grate.....
Kriegslob	SD-35	1	Column Complete.....
Kriegszug	SD-36	1	Column Cap.....
Krieklaar	SD-37	1	Ball Collar.....
Krielheid	SD-38	5	Cable Sheave.....
Kriemelig	SD-39	5	Cable Sheave Shafts.....
Kriemveld	SD-40	1	Arm Bracket, Column Clasp.....
Krijgerte	SD-42	2	Arm Bracket Clamps.....
Krijgveed	SD-43	2	Arm Rails.....
Krijachen	SD-44	2	Arm Separators.....
Krikentel	SD-45	1	Hook.....
Krimisosp	SD-46	1	End Separator.....
Krimpentz	SD-50	2	Trolley Cheeks.....
Krimperst	SD-51	2	Trolley Axles.....
Krimpilot	SD-52	2	Trolley Wheels.....
Krimpster	SD-53	1	Trolley Guide.....
Kringelno	SD-54	2	Trolley Guide Shoes.....
Kringelig	SD-55	2	Hammer Clamps.....
Kringloop	SD-56	2	Hammer Clamp Bolts.....
Krishmant	SD-60	1	Winding Drum.....
Kritarchy	SD-61	1	Winding Drum Shaft.....
Kritikern	SD-62	1	Winding Drum Gear.....
Kritiches	SD-63	1	Winding Drum Pinion.....
Krittlerm	SD-64	1	Pinion Shaft.....
Kritzelst	SD-65	1	Ratchet.....
Kroegvera	SD-66	1	Ratchet Handle.....
Kroegstil	SD-67	1	Ratchet Pawl.....
Kroegmilt	SD-68	1	Ratchet Bracket.....
Kroegomel	SD-69	2	Winding Drum Brackets.....
Kroeglamp	SD-70	2	Pins.....
Kroegkopf	SD-71	1	Ratchet Handle Stud.....
Kroeghall	SD-75		$\frac{3}{4}$ -inch Cable, 48 feet.....
Kroegfest	SD-76		Cable Clamps.....
Kroeggorn	SD-77		14 feet of $\frac{3}{4}$ -inch Hose.....
Kroegdamb	SD-78	1	Street Ell, $\frac{3}{4}$ -inch.....
Kroegcart	SD-80	2	Hose Nipples, $\frac{3}{4}$ -inch.....
Kroegboat	SD-81	1	Hose Rod.....
Kroegalok	SD-82	1	Tool Bail.....
Kroegaboz	SD-83	3	Hose Clamps.....

In ordering repair parts, give size and serial number of tool, also symbol number of part.



